

Service Manual

Stereo Cassette Player

Mini Cassette
RQ-P44

Colour

(K)..... Black Type

Area

Suffix for Model No.	Areas	Colour
[E]	Europe	(K)



SPECIFICATIONS\ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ
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 СХЕМА СОЕДИНЕНИЯ УЗЛОВ
 PACKAGING\УПАКОВКА
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Panasonic

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■ SPECIFICATIONS

General:

Power Requirement: Battery; 3V (Two "AA" size, R6/LR6 batteries)
AC; with optional Panasonic
AC adaptor RP-AC31

Power Output: 40mW (20mWx2)---RMS (max.)

Input: DC IN; 3V (⊕-⊖)

Output: Headphones; 24Ω, ϕ3.5

Dimensions: 86.7(W)×113.2(H)×31.1(D)mm

Weight: 129g without batteries

Tape Deck Section:

Frequency Response: 50~16,000Hz (Normal, CrO₂/Metal)

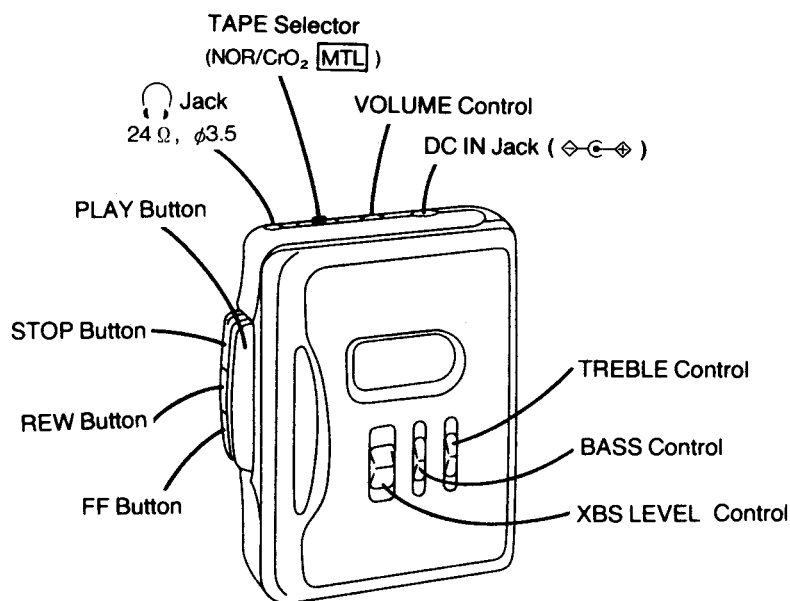
Tape Speed: 4.8cm/s

Program Time: 1 hour with C-60 cassette tape

Track System: 4-track, 2-channel, stereo playback

1. Weights and dimensions shown are approximate.
2. Design and specifications are subject to change without notice.

LOCATION OF CONTROLS



DISASSEMBLY INSTRUCTIONS

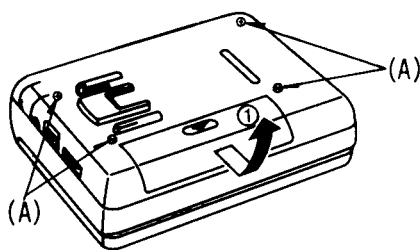


Fig. 1

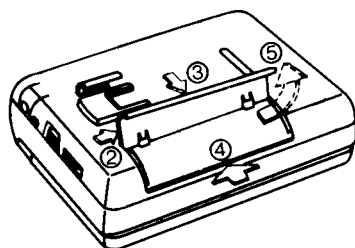


Fig. 2

● Removal of the battery cover and Rear Cabinet

1. Open the battery cover in the direction of arrow ①.
2. Remove the battery cover in the direction of arrow ② and ③.
3. Remove the screws (A) (2×10)mm×4.
4. Remove the rear cabinet in the direction of arrow ④ & ⑤.

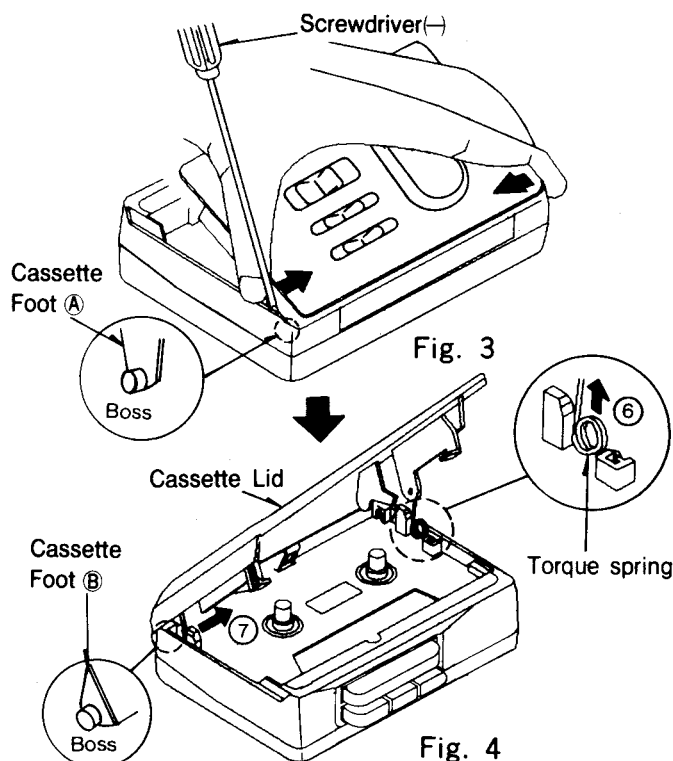
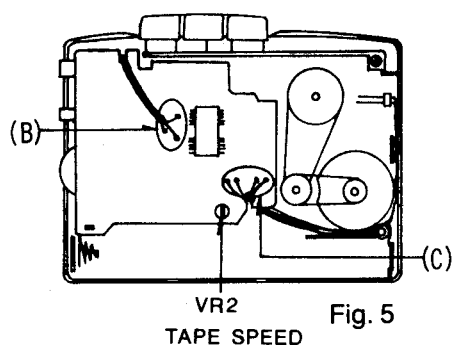
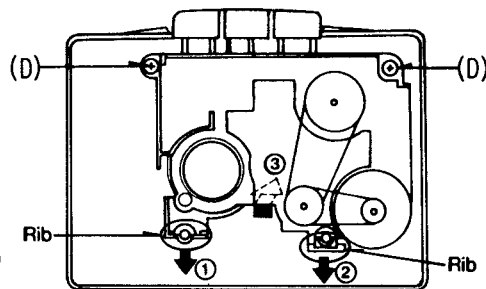
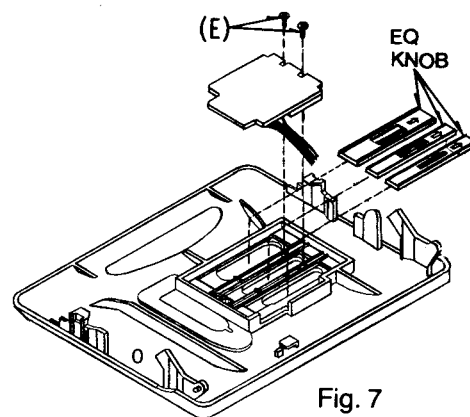
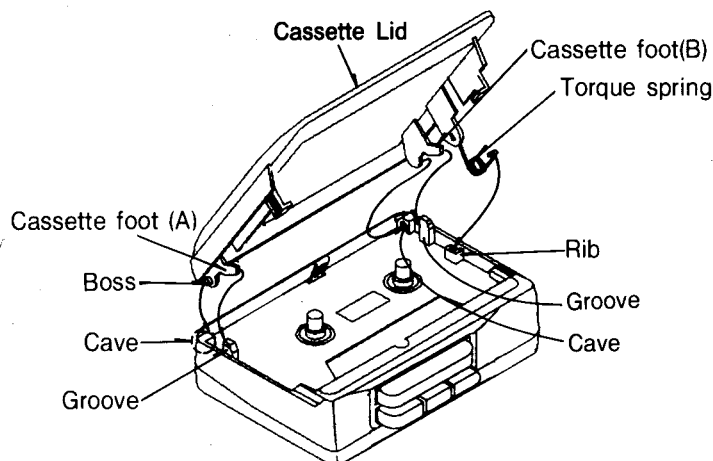
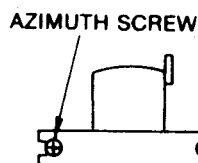
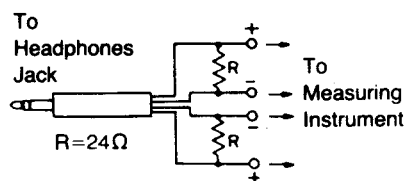


Fig. 4

● How to Removal of the Cassette Lid

Note: Be careful not to break cassette foots ① and ② when removing the cassette lid.

1. Strongly press two sides of the cassette lid, then it was bent a little.
2. With a (-) screwdriver as shown in Fig 3, and pull out the right-side of the cassette lid.
3. Remove the torque spring ⑥ in the direction of arrow.
4. By the direction of ⑦, remove the cassette foot.


Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

● Removal of the Circuit Board (Fig. 5)

1. Remove the Solder (B) (C) from flexible PC board.

● Removal of the Front Cabinet and Mechanism (Fig. 6)

1. Remove the screws (D) (2×6)mm×2.
2. Remove the front cabinet & mechanism in the direction of arrow ①, ② and ③.

● Removal of the Cassette Holder & Graphic Equalizer PC board. (Fig. 7)

1. Remove the screw (E) (1.4×3.5)mm×2.
2. Remove the EQ KNOB ×3.

● How to Replace the Cassette Lid Spring (Fig. 8)

1. Enter the cassette foot (A) into the groove of the case body.
2. Enter the boss of the cassette foot into the cave.
3. To plug the torque spring into the groove of the case body.
4. Enter the cassette foot (B) into the groove of the case body.

■ MEASUREMENT AND ADJUSTMENTS

● ALIGNMENT INSTRUCTION

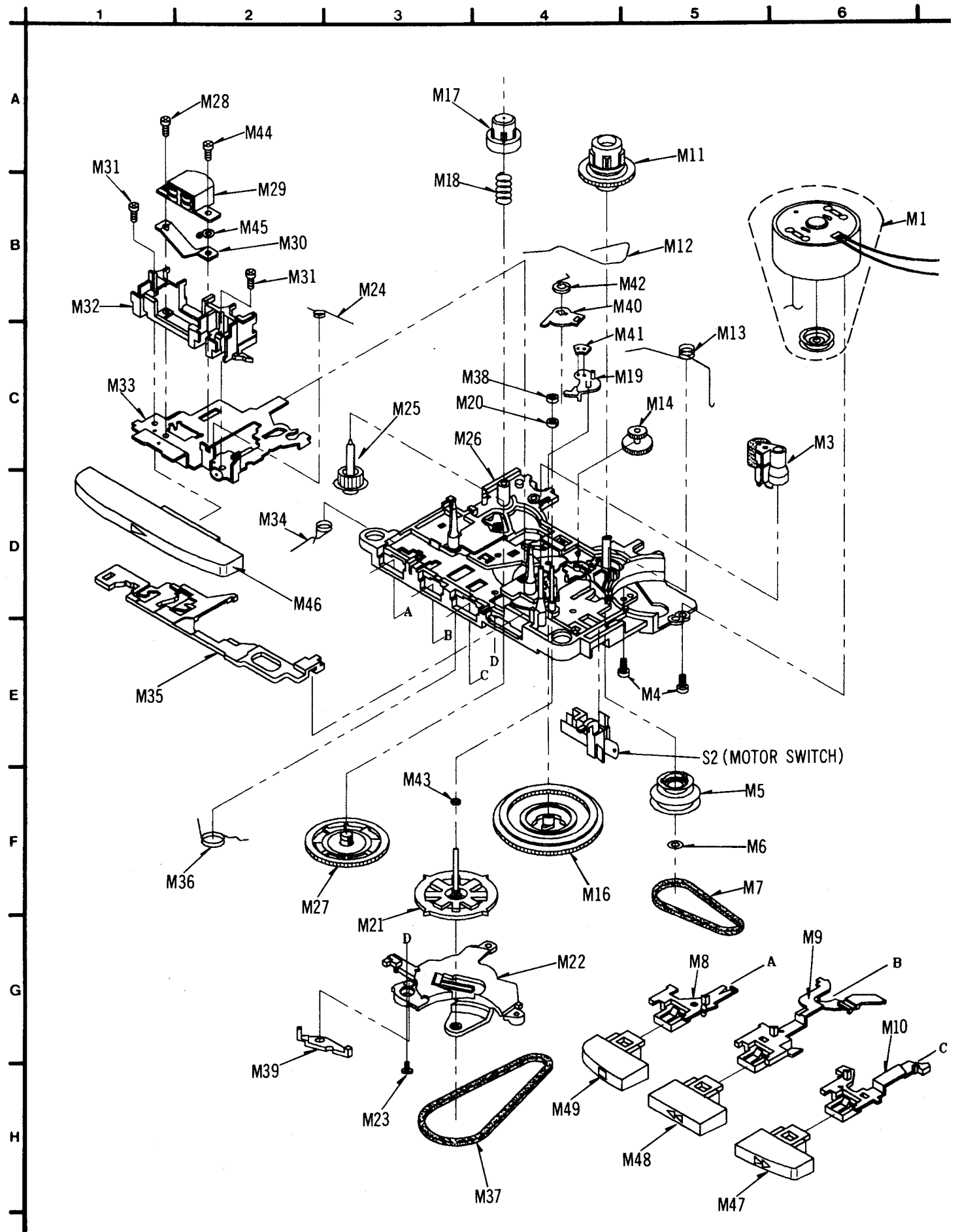
READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set power source voltage to 3V DC.
3. Set Tape Selector Switch to normal.
4. Output of signal generator should be no higher than necessary to obtain an output reading.
5. Make sure heads are clean.
6. Make sure capstan and pinch roller are clean.

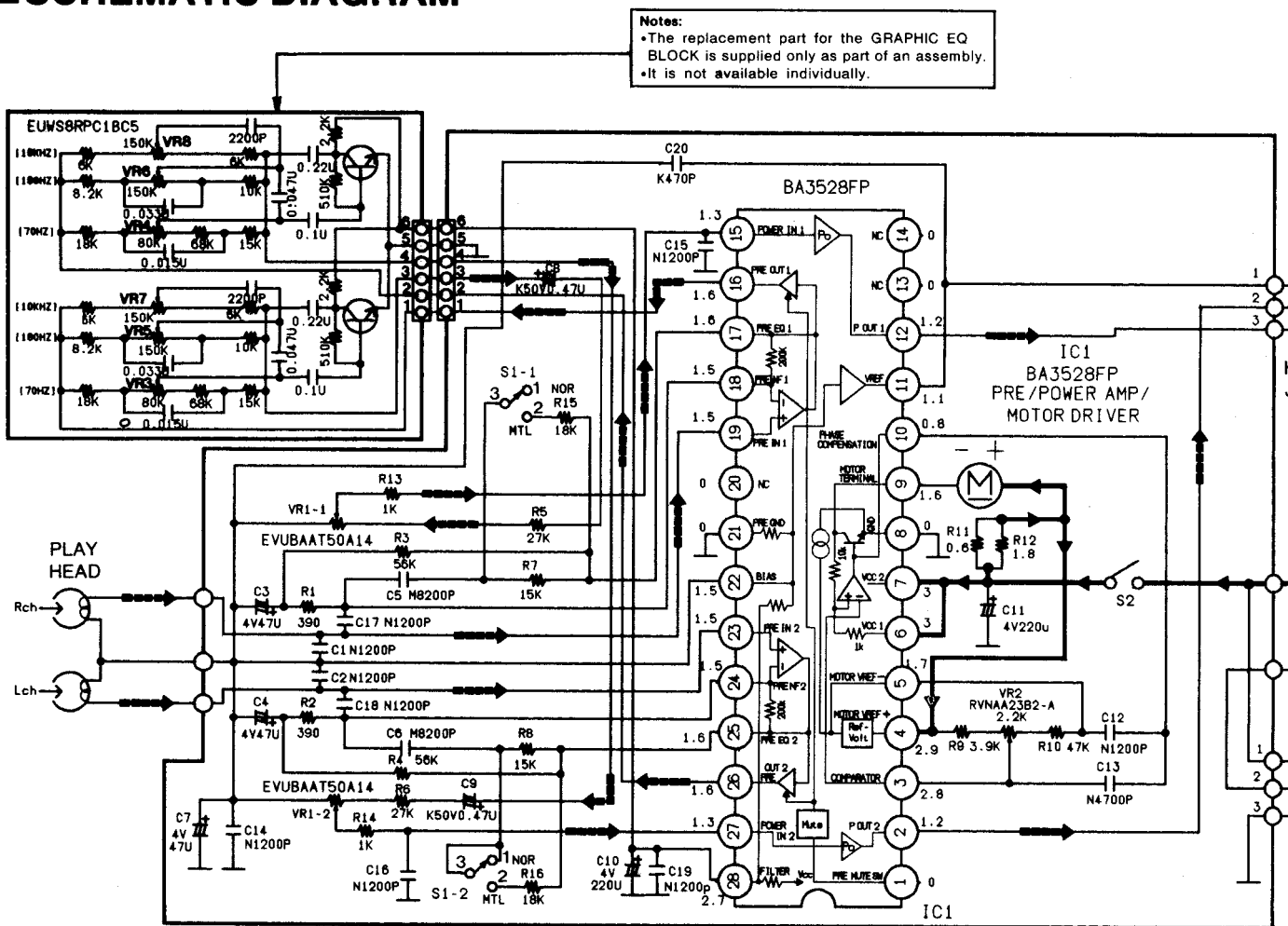
● TAPE DECK SECTION

ITEM	INPUT	MEASUREMENT POINT	ADJUSTMENT POINT	PROCEDURE
Azimuth	QZZCFM (8kHz, -20dB)	Headphones Jack (24Ω) (Fabricate the plug as shown in Fig. 10 and then connect the lead wires of the plug to the measuring instrument.)	Azimuth adjustment screw (Refer to Fig. 9)	Adjust the azimuth adjustment screw during repeated forward and reverse playback to obtain the maximum head azimuth alignment with both channels equal. Then screw-lock the adjustment in place.
Tape speed	QZZCWAT (3kHz, -10 dB)		VR2 (Refer to Fig. 5)	Playback the central part of the tape and adjust VR2 so that the tape speed is as follows. 3000±60Hz (Forward & Reverse)

MECHANISM PARTS LOCATION



SCHEMATIC DIAGRAM



Notes:

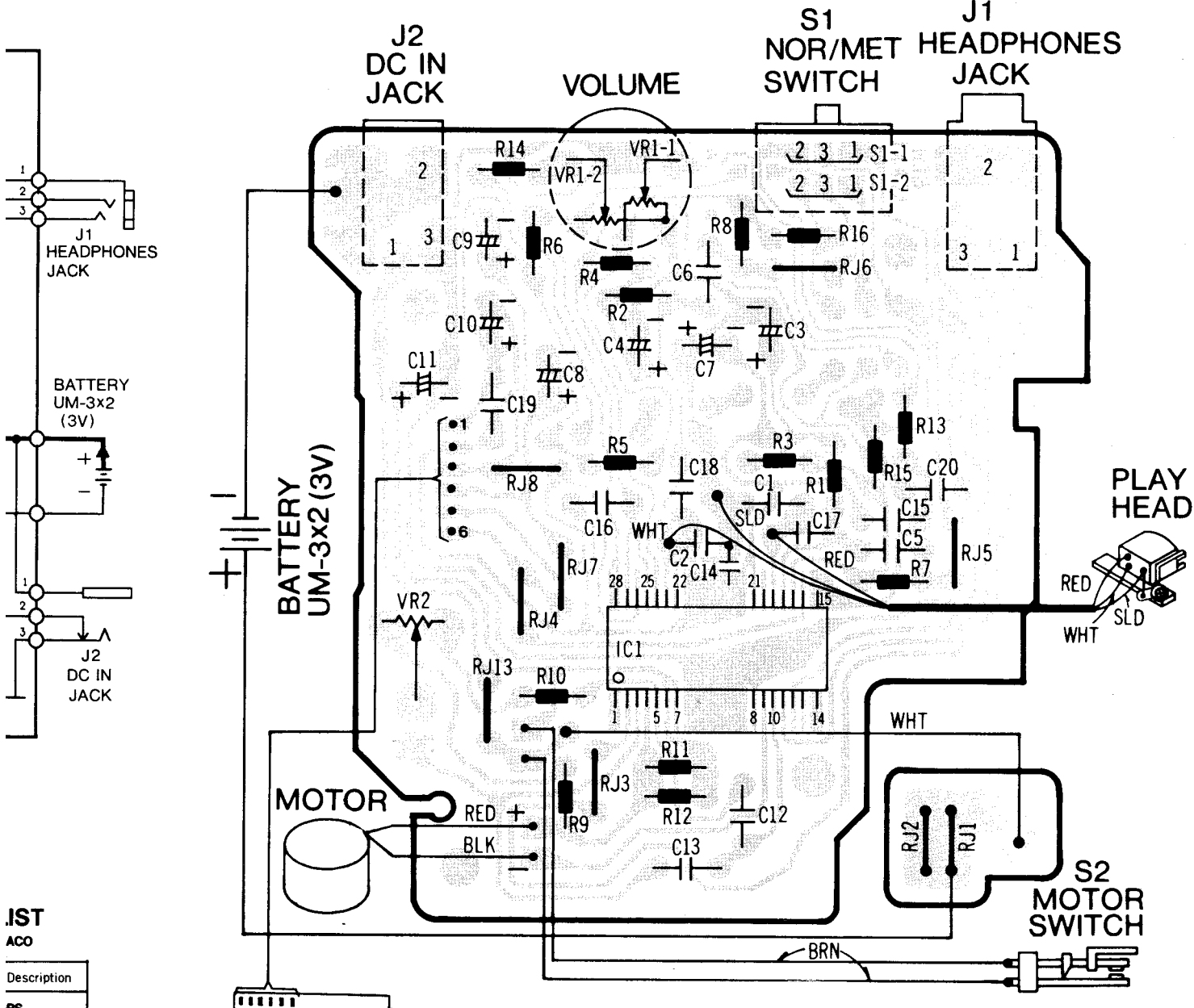
- S1-1~S1-2: Tape selector switch in "NORMAL" position.
(1---Normal, 2---CrO₂/Metal)
- S2: Motor switch in "OFF" position.
- VR1-1, 1-2: Volume control VR.
- VR2: Tape speed adjustment VR.
- VR3~8: Graphic Equalizer VR (70Hz/180Hz/10kHz)
VR3, 4: 70Hz (XBS LEVEL Control)
VR5, 6: 180Hz (BASS Control)
VR7, 8: 10kHz (TREBLE Control)
- All voltage values shown in circuitry are under no signal condition and playback mode with volume control at maximum position.
- ➡ +B Voltage Line.
▬▬▬▬ Playback Signal.
- Battery current: Volume Minimum output.....120mA
Volume Maximum output.....150mA
(315Hz 0dB tape playback, QZZCFM)

REPLACEMENT PARTS LIST

☐ Indicates parts that are supplied by TAMACO

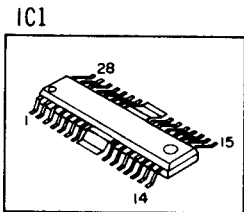
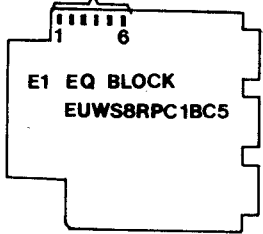
Ref. No.	Parts No.	Parts Name & Description
INTEGRATED CIRCUITS, TRANSISTORS		
IC1 ☐	BA3528FP	I.C. PRE/Power AMP
VARIABLE RESISTORS		
VR1	EVUBAAT50A14	V.R. Volume Control
VR2 ☐	RVNAA23B2-A	V.R. Tape Speed
SWITCHES		
S1 ☐	RSS2B54YA-K	SW, Selector
S2 ☐	RFA114ZA	SW, Motor
JACKS		
J1	RJJD3S5ZB-C	Headphones Jack
J2	RJJ43H01-C	DC IN Jack
GRAPHIC EQUALIZER		
E1	EUWS8RPC1BC5	Graphic EQ Ass'y

■CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



IST
ACO

Description
RS AMP
rol
y



■RESISTORS & CAPACITORS PARTS LIST

□ Indicates parts that are supplied by TAMAGO

Ref. No.	Parts No.	Ref. No.	Parts No.
RESISTORS		CAPACITORS	
R1,2	ERDS2TJ391T	C1,2,12,15,16,17,18,19	ECBT1H122NR5
R3,4	ERDS2TJ563T	C3,4,7	ECEA0GKA470I
R5,6	ERDS2TJ273T	C5,6	ECBT1C822MS5
R7,8	ERDS2TJ153T	C8,9	ECEA1HKAR47I
R9	ERDS2TJ392T	C10,11	ECEA0GK221IV
R10	ERDS2TJ473T	C13	ECBT1C472NR5
R11	RRSA39JR60TH	C14	ECUV1H122MBN
R12	ERDS2TJ1R8T	C20	ECBT1H471KB5
R13,14	ERDS2TJ102T		
R15,16	ERDS2TJ183T		
JUMPERS			
RJ5-8,13	WSNL		

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SPECIFICATIONS

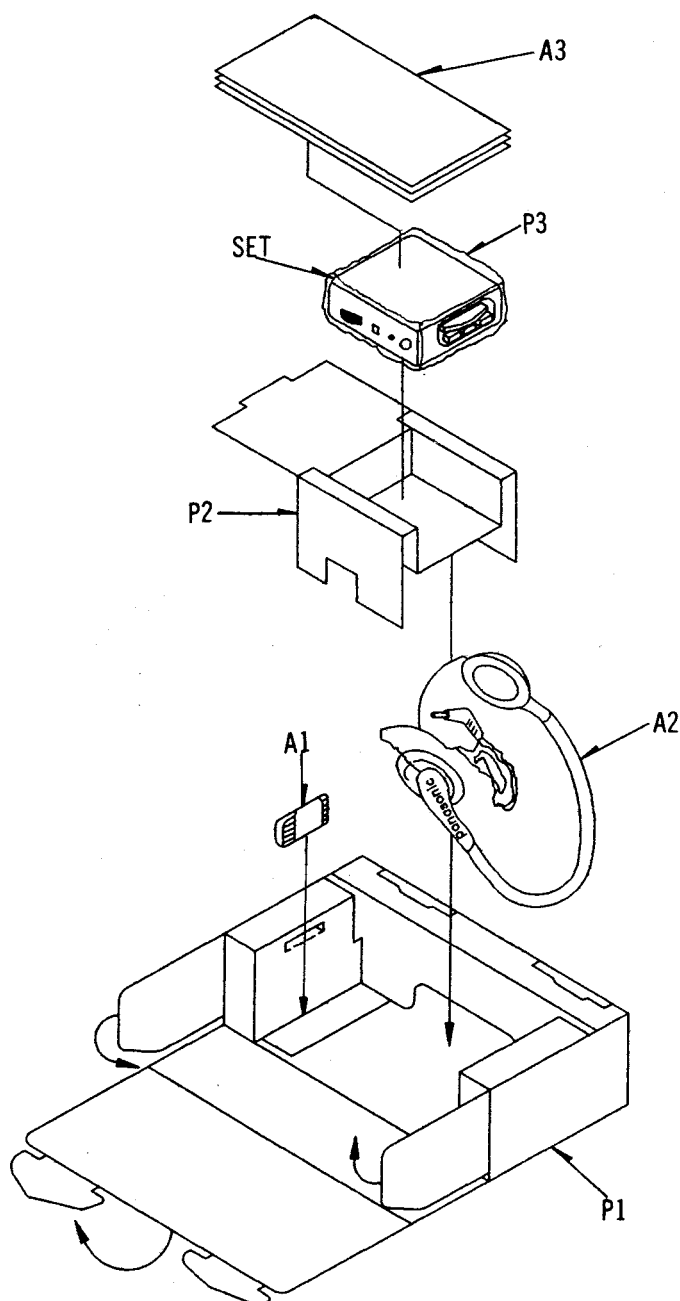
Pressure of Pressure roller	160gr
Wow & flutter	Less than 0.3% (WRMS)
Playback torque	23~ 43gr-cm
FF torque	60~160gr-cm
REW torque	60~160gr-cm

REPLACEMENT PARTS LIST

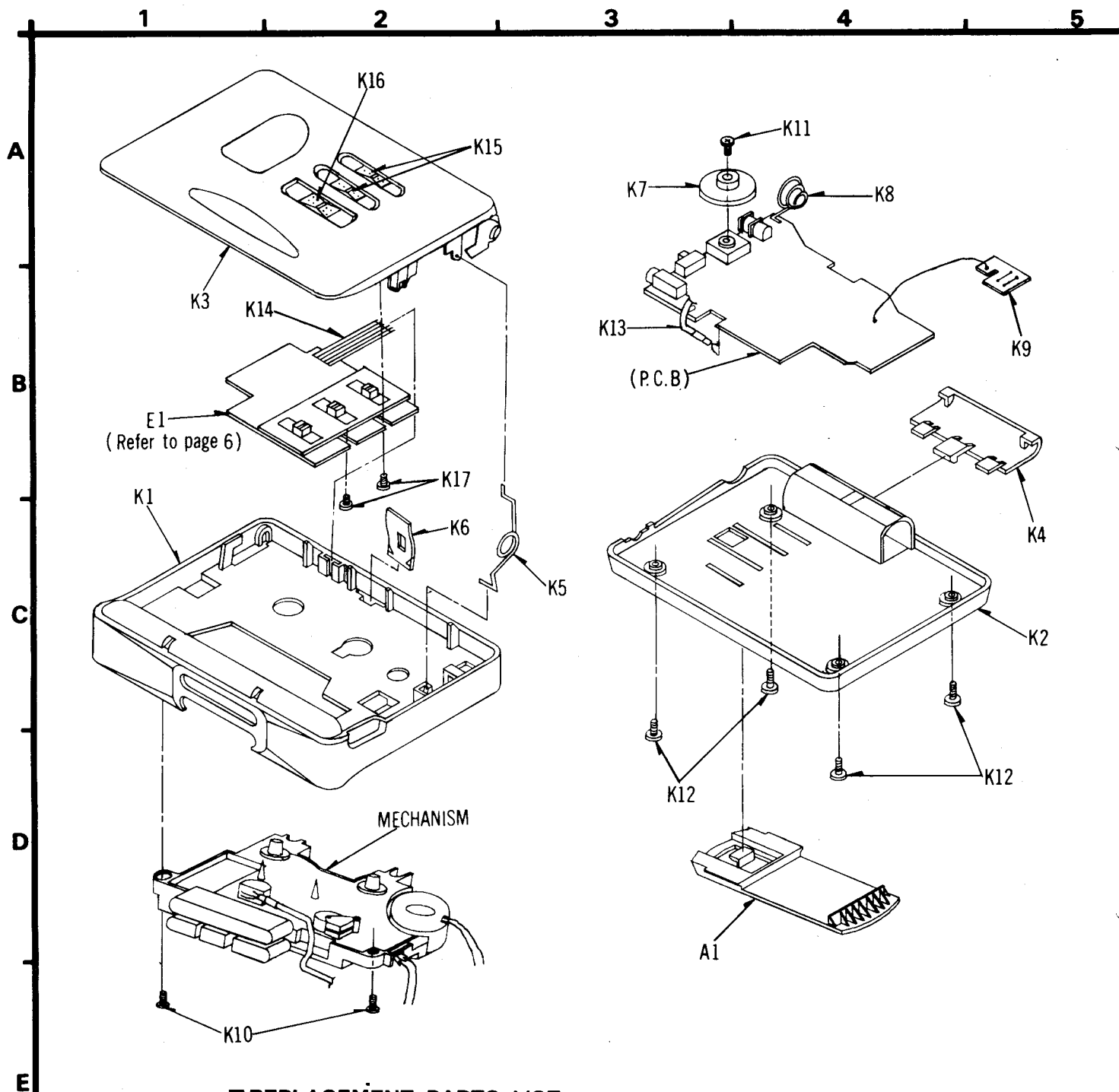
□ Indicates parts that are supplied by TAMACO

Ref No.	Part No.	Part Name & Description
MECHANICAL PARTS		
M1	RFKPQP40P	Motor Ass'y
M3□	RFR77ZA	Pinch Roller Arm Ass'y
M4□	RFE598ZA	Tapping Screw
M5□	RFG75ZA	Trans Pulley
M6□	RFN246ZA	Lumilar Washer
M7□	RFB124ZA	M. Belt
M8□	RFY1067ZA	Stop Lever
M9□	RFY1068ZA	Rwd Lever
M10□	RFY1069ZA	FF Lever
M11□	RFJ102ZA	Take Up Reel Ass'y
M12□	RFS976ZA	Sensor Spring
M13□	RFS977ZA	HP Spring
M14□	RFG173ZA	T. Up. Gear
M16□	RFG174ZA	Cam Gear
M17□	RFJ103ZA	Rwd Reel Hub
M18□	RFS978ZA	B. T Spring
M19□	RFY1070ZA	Auto Lever
M20□	RFX185ZA	HLW Cut (Washer)
M21□	RFF95ZA	Flywheel Ass'y
M22□	RFD448ZA	FL Bracket
M23□	RFX186ZA	PST (Screw)
M24□	RFS979ZA	PR Spring
M25□	RFG175ZA	Rwd Hub Gear
M26□	RFU225ZA	Chassis Ass'y
M27□	RFG176ZA	Rwd Gear
M28□	RFE599ZA	Screw
M29	RBR4CG006-S	P. Head
M30□	RFS980ZA	Head SPR-PL
M31□	RFE600ZA	Tapping Screw
M32□	RFE601ZA	Tape Guide
M33□	RFU226ZA	Head Panel
M34□	RFS981ZA	Stop Spring
M35□	RFY1071ZA	Lock Plate
M36□	RFS982ZA	FR Spring
M37□	RFB125ZA	FL Belt
M38□	RFN247ZA	HLW (Washer)
M39□	RFX187ZA	FF Stopper
M40□	RFY1072ZA	A Push Arm
M41□	RFY1073ZA	Blance Plate
M42□	RFN248ZA	PW Cut
M43□	RFN249ZA	HLW
M44□	RFE603ZA	+ - Screw
M45□	RFE604ZA	LUG Plate
M46□	RGUT0014-K	Button, Play
M47□	RGUT0015-K	Button, FF
M48□	RGUT0016-K	Button, REW
M49□	RGUT0017-K	Button, Stop

PACKAGING



CABINET PARTS LOCATION



REPLACEMENT PARTS LIST

☐ Indicates parts that are supplied by TAMACO

Ref. No.	Parts No.	Parts Name & Description	Ref. No.	Parts No.	Parts Name & Description
CABINET PARTS					
K1	RKM0294A-K	Front Cabinet	K14 ☐	WBE6AH	6P Wire
K2	RKS0206C-K	Rear Cabinet	K15	RGVT0013-K	EQ Slide Knob
K3	RFKLQP44E	Cassette Cover Ass'y	K16	RGVT0014-K	EQ Knob (XBS)
K4	RKK0085-K	Battery Cover	K17 ☐	XTNR14+3.5CF	Screw
K5 ☐	RMET0005	Cassette Cover Spring	ACCESSORY		
K6 ☐	RUS262TZA	Tape Spring	A1 ☐	RKQT0002-K	Belt Clipper
K7 ☐	RGWT0007-K	Volume Knob	A2 ☐	RP-HT102PY-Y	Headphones
K8	RJC70017	Battery Terminal(→)	A3	ROTT0109-E	Instruction Manual
K9	RJB1447A-A	Battery Terminal Chassis	PACKING MATERIALS		
K10 ☐	RHD006TZA	Screw	P1	RPKT0043	Decoration Box
K11 ☐	XSH17+3.5	Screw	P2	RPNT0071	PAD
K12	XTNR2+10CFZ	Screw	P3 ☐	RPFT0001	Polyethylene Cover
K13	RWWP40	Head Wire			